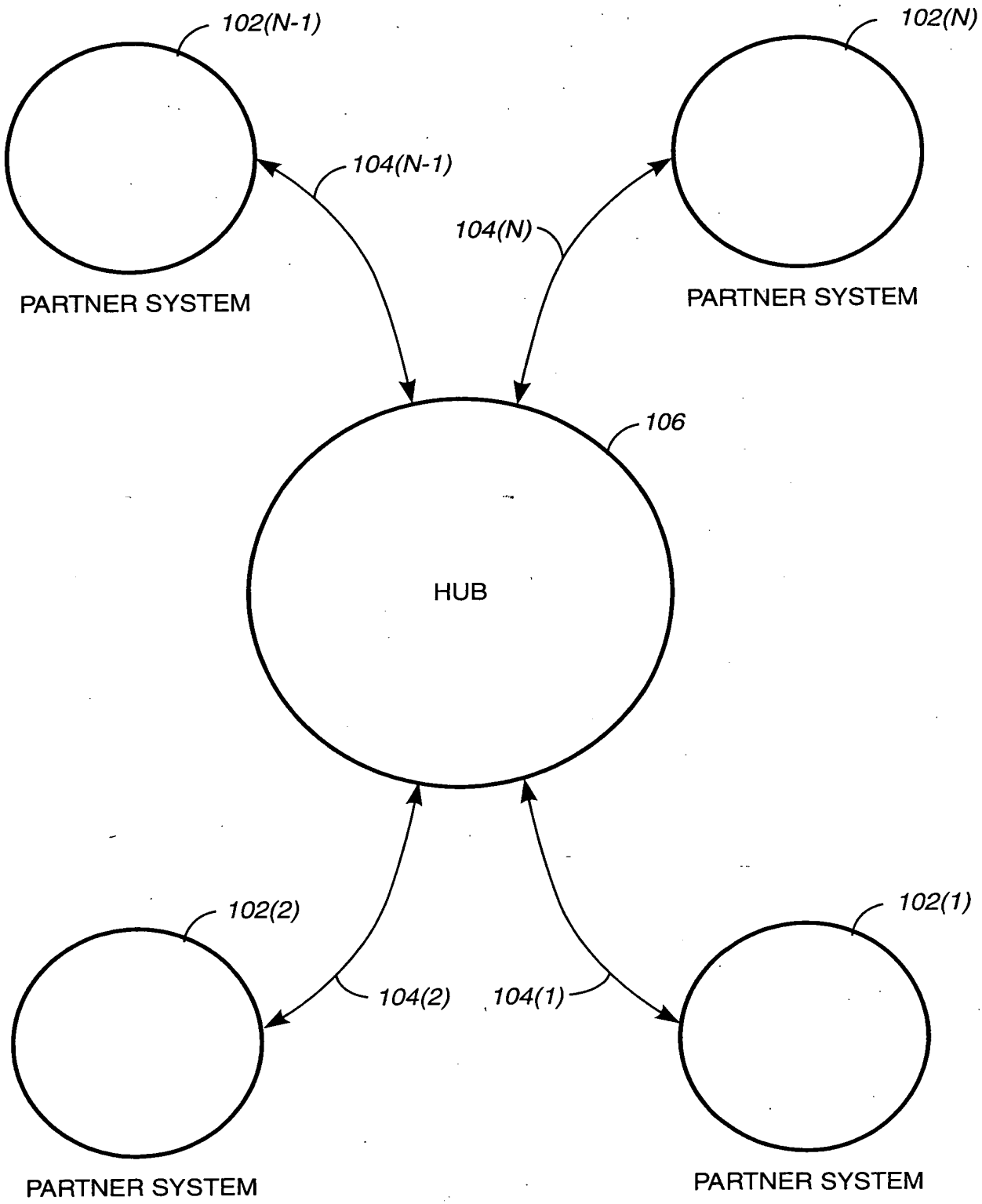
#3

04540.0052



100

FIG. 1

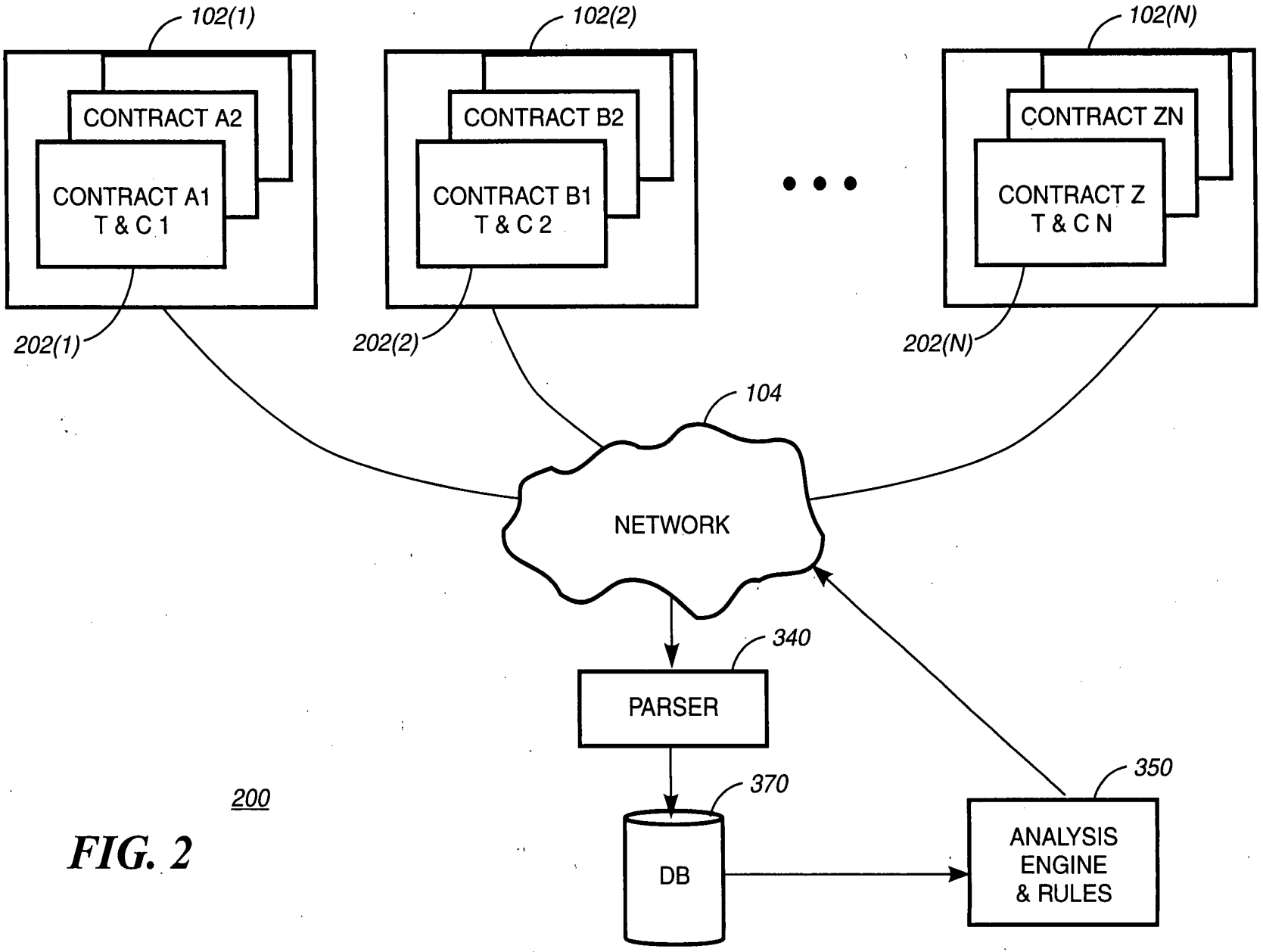

102(1)
102(2)
102(N)
CONTRACT A2
CONTRACT A1
T & C 1
CONTRACT B2
CONTRACT B1
T & C 2
CONTRACT ZN
CONTRACT Z
T & C N
202(1)
202(2)
202(N)
104
NETWORK
340
PARSER
370
DB
350
ANALYSIS
ENGINE
& RULES
200

FIG. 2

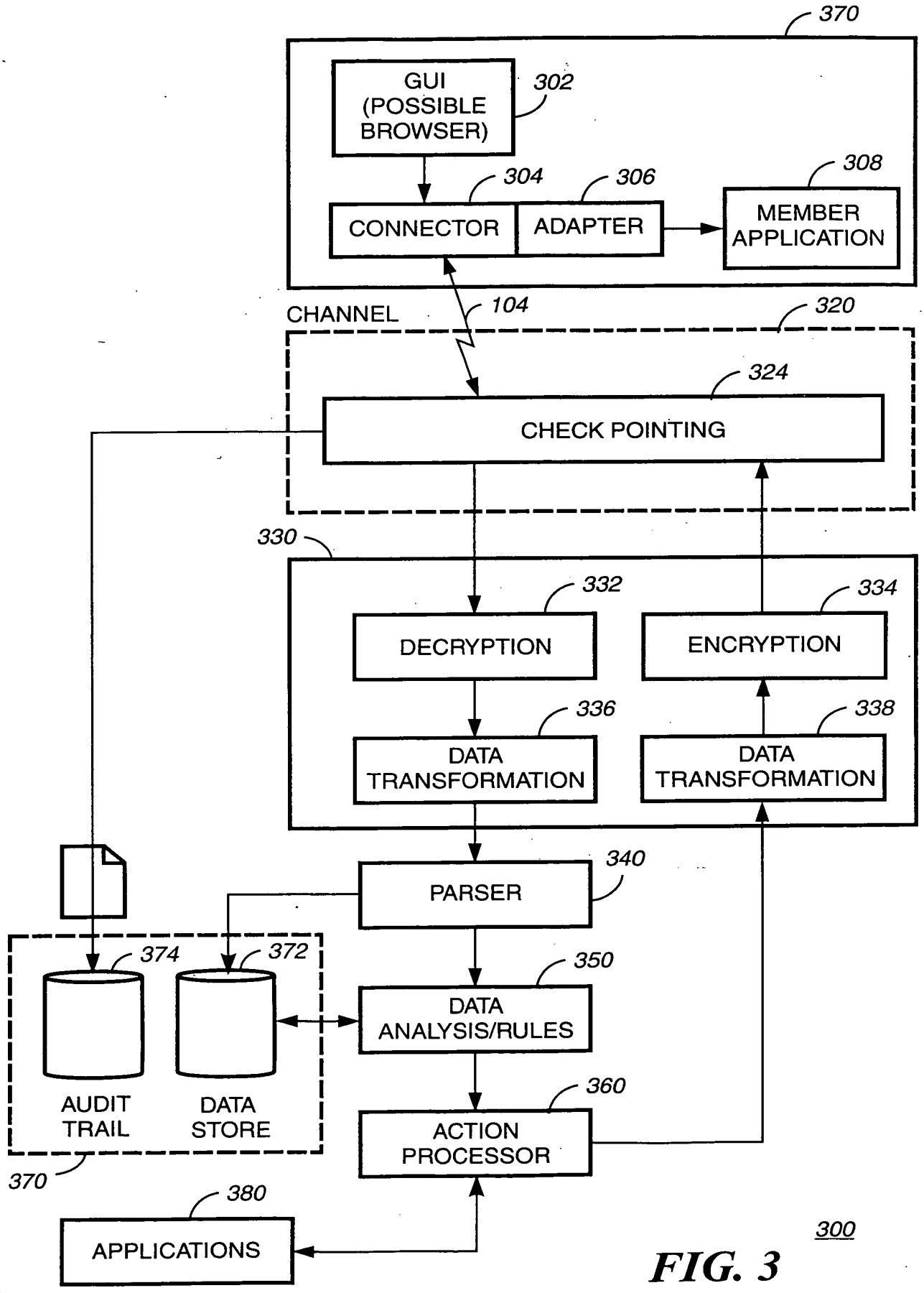
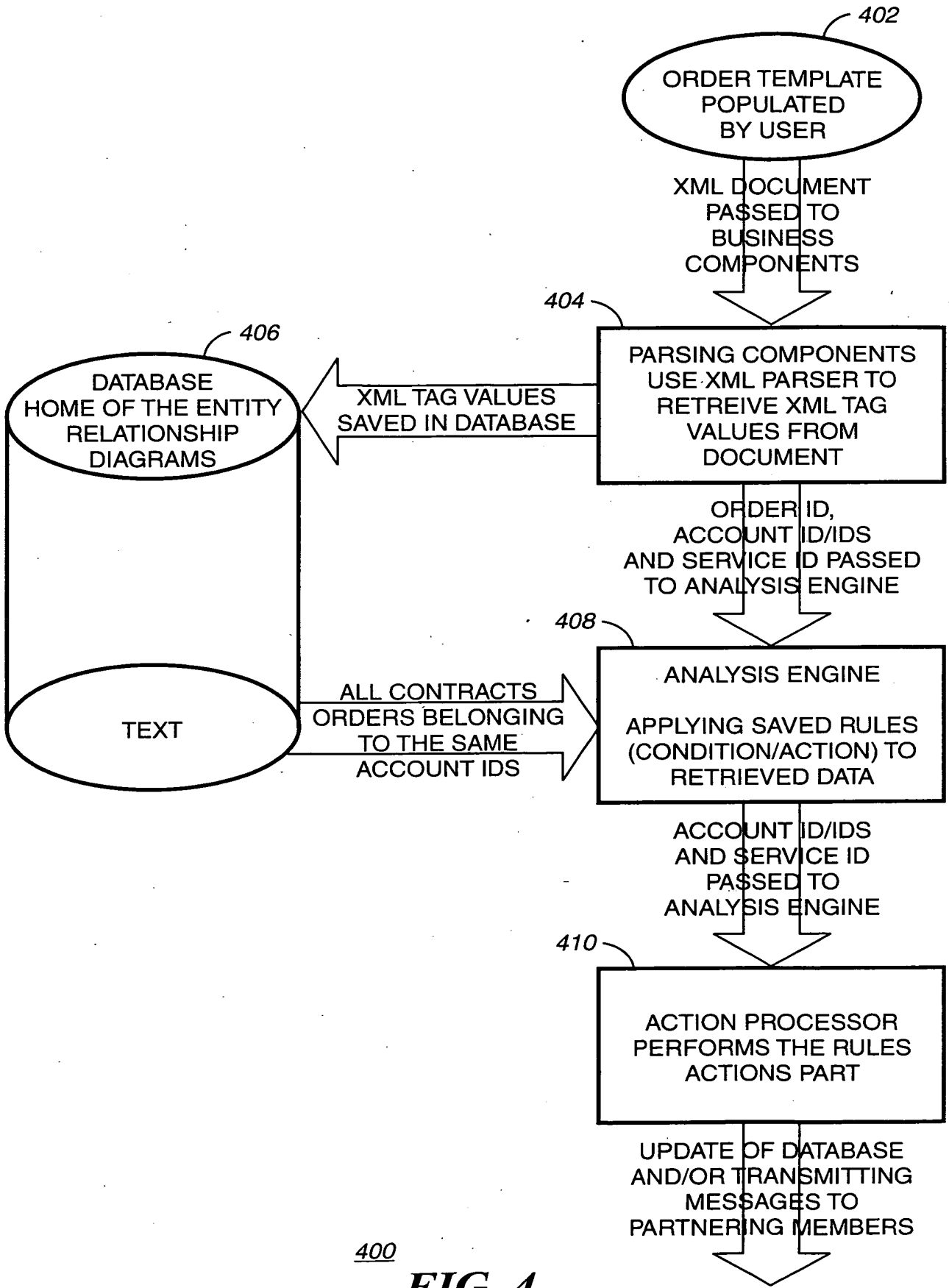


FIG. 3

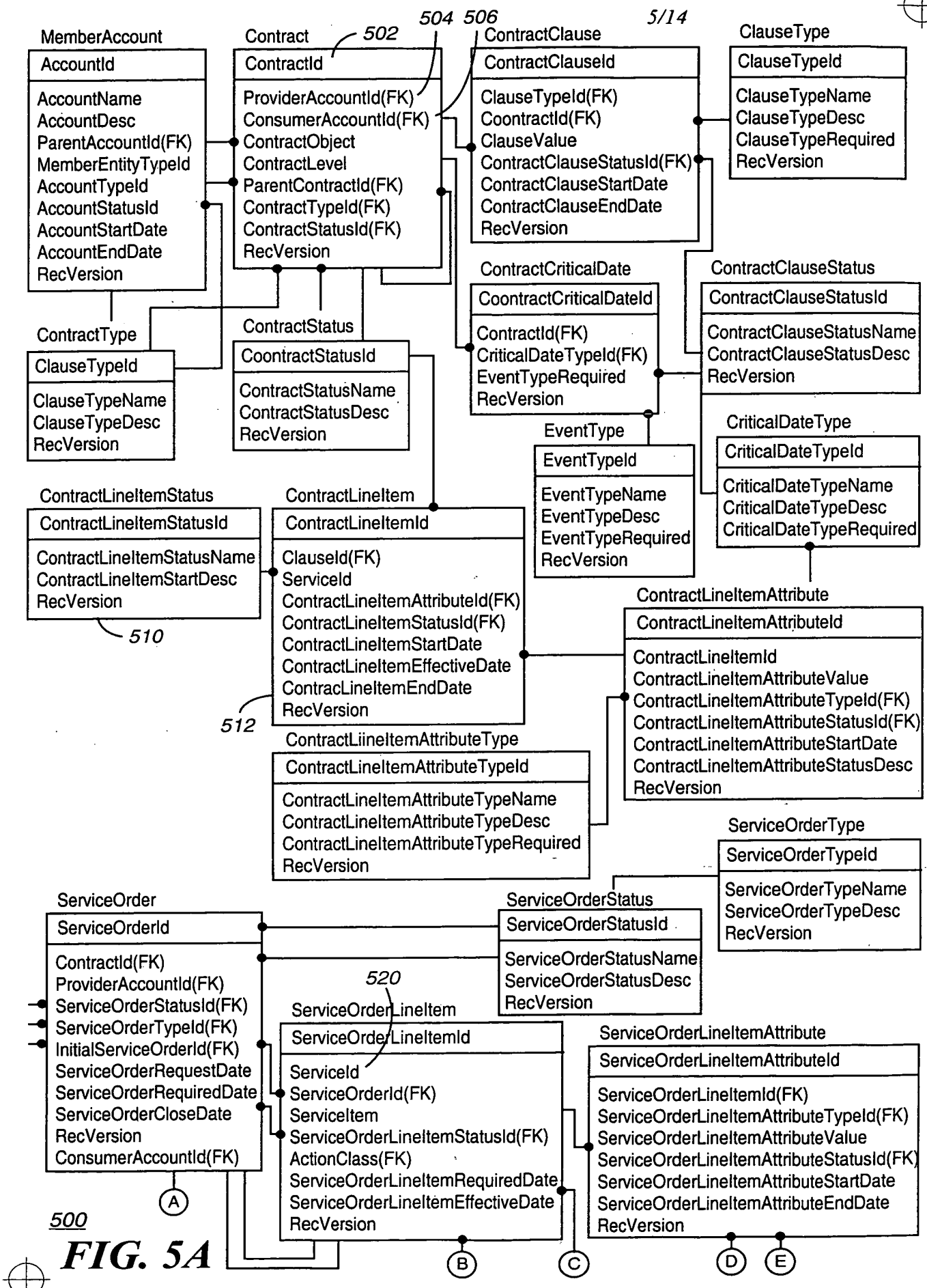
09/552,629 - 05/4/01



400

FIG. 4

09452254.050704



500

FIG. 5A

US 6,957,186 B1

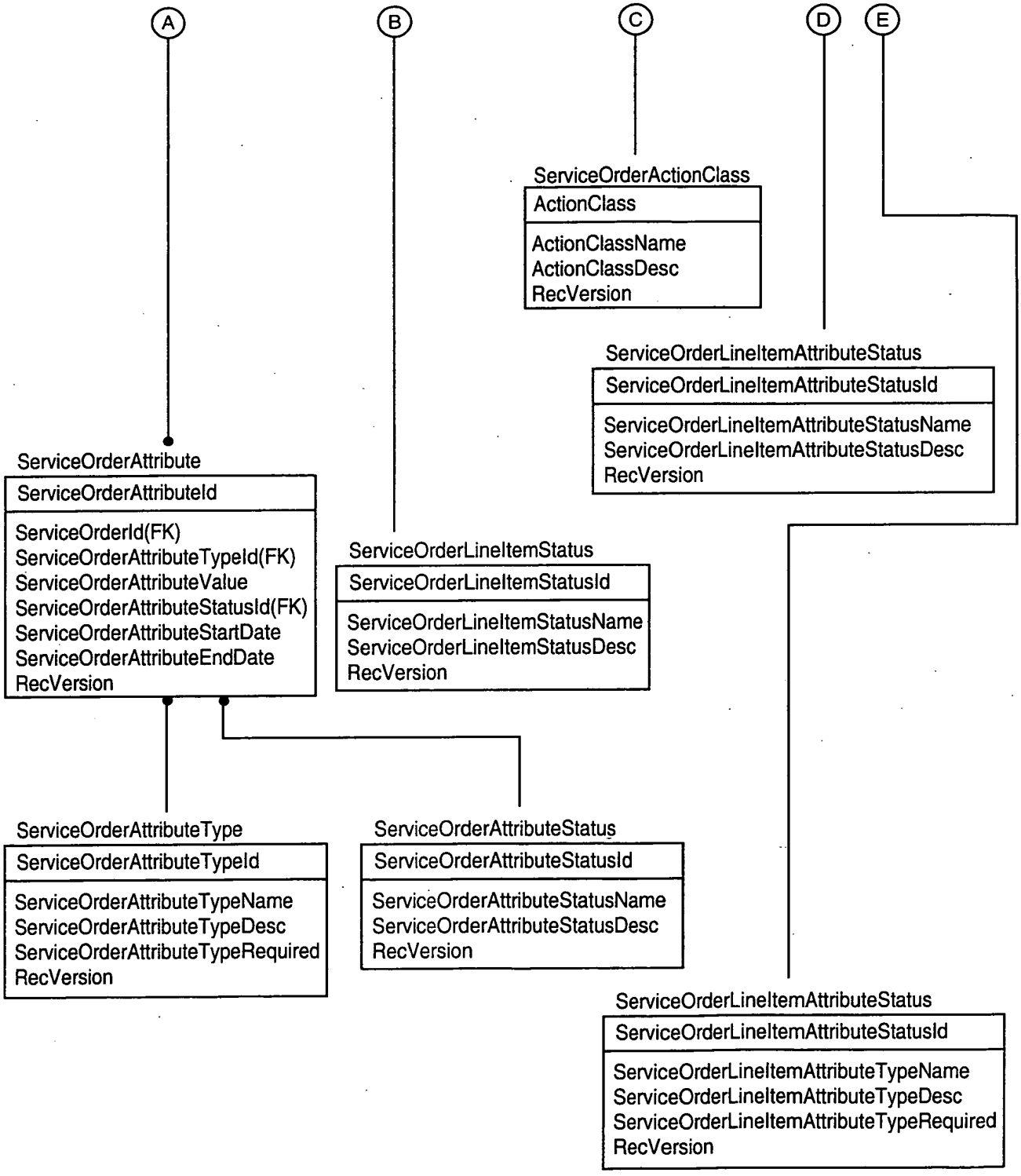

A
B
C
D
E
ServiceOrderActionClass
ActionClass
ActionClassName
ActionClassDesc
RecVersion
ServiceOrderLineItemAttributeStatus
ServiceOrderLineItemAttributeStatusId
ServiceOrderLineItemAttributeStatusName
ServiceOrderLineItemAttributeStatusDesc
RecVersion
ServiceOrderAttribute
ServiceOrderAttributeId
ServiceOrderId(FK)
ServiceOrderAttributeTypeId(FK)
ServiceOrderAttributeValue
ServiceOrderAttributeStatusId(FK)
ServiceOrderAttributeStartDate
ServiceOrderAttributeEndDate
RecVersion
ServiceOrderLineItemStatus
ServiceOrderLineItemStatusId
ServiceOrderLineItemStatusName
ServiceOrderLineItemStatusDesc
RecVersion
ServiceOrderAttributeType
ServiceOrderAttributeTypeId
ServiceOrderAttributeTypeName
ServiceOrderAttributeTypeDesc
ServiceOrderAttributeTypeRequired
RecVersion
ServiceOrderAttributeStatus
ServiceOrderAttributeStatusId
ServiceOrderAttributeStatusName
ServiceOrderAttributeStatusDesc
RecVersion
ServiceOrderLineItemAttributeStatus
ServiceOrderLineItemAttributeStatusId
ServiceOrderLineItemAttributeTypeName
ServiceOrderLineItemAttributeTypeDesc
ServiceOrderLineItemAttributeTypeRequired
RecVersion

FIG. 5B

```
<?xml version ="1.0"?>
<!DOCTYPE Contract SYSTEM "PartnerCommunityNamespace.dtd">
<Order>
        <OrderID>only text</OrderID>
        <Account>only text</AccouuntID>
        <UserID>only text</UserID>
        <OrderLineItem>
            <Service>
602                 <ServiceID>only text</ServiceID>
                    <Account>
                    </Account>
                    <CriticalDates>
                    </CriticalDates>
                    <Attributes>
                        <AttributeType>only text</AttributeType>
                        <AttributeValue>only text</AttributeValue>
                        <DisplayName>only text</DisplayName>
                        <Description>only text</Description>
                        <DataType>only text</Flags>
                        <Flags>only text</Flags>
                        <Importance>only text</Importance>
                        <Status>only text</Status
                    </Attributes>
                    <Title>only text</Title>
            </Service>
            <Attributes>
604                 <AttributeType>only text</AttributeType>
                    <AttributeValue>only text</AttributeValue>
                    <DisplayName>only text</DisplayName>
                    <Description>only text<Description>
                    <DataType>only text</DataType>
                    <Flags>only text</Flags>
                    <Importance>only text</Importance>
                    <Status>only text</Status>
            </Attributes>
            <OrderLineItemID>only text</OrderLineItemID>
            <CriticalDates>
                    <DateID>only text</DateID>
                    <DateName>only text</DateName>
                    <DateValue>only text</DateValue>
                    <DateDescription>only text</DateDescription>
```

600

FIG. 6A

```
                    <Flags>only text</Flags>
                    <Importance>only text</Importance>
                    <Status>only text</Status
                    <Event>
                        <EventType>only text</EventType>
                        <EventDescription>only text</EventDescription>
                    </Event>
                </CriticalDates>
                <ActionClass>only text</ActionClass>
                <Status>only text</Status>
            </OrderLineItem>
            <ContractID>only text</ContractID>
            <Attributes>
                <AttributeType>only text</AttributeType>
                <AttributeValue>only text</AttributeValue>
                <DisplayName>only text</DisplayName>
                <Description>only text</Description>
                <DataType>only text</DataType>
                <Flags>only text</Flags>
                <Importance>only text</Importance>
                <Status>only text</Status>
            </Attributes>
            <Status>only text</Status>
    </Order>
```

FIG. 6B

Docket No. 95252.0054

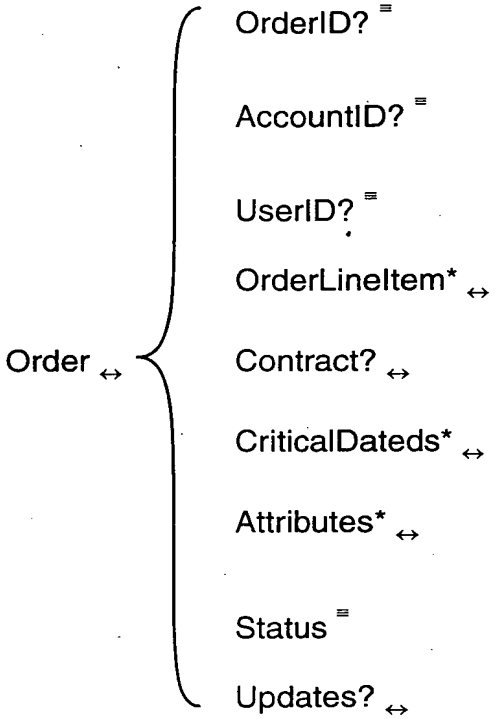
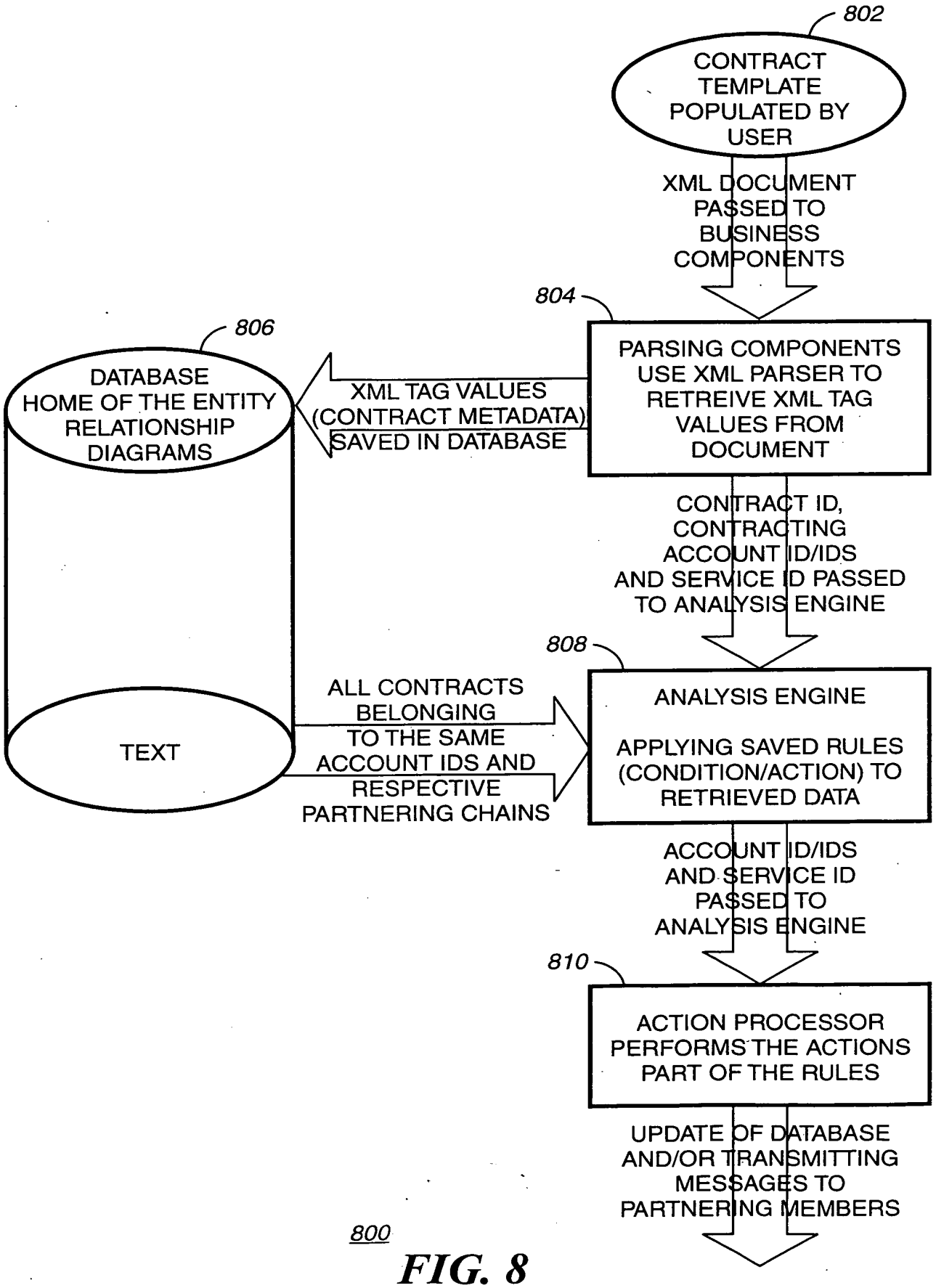

Order ↔
OrderID? ≡
AccountID? ≡
UserID? ≡
OrderLineItem* ↔
Contract? ↔
CriticalDateds* ↔
Attributes* ↔
Status ≡
Updates? ↔

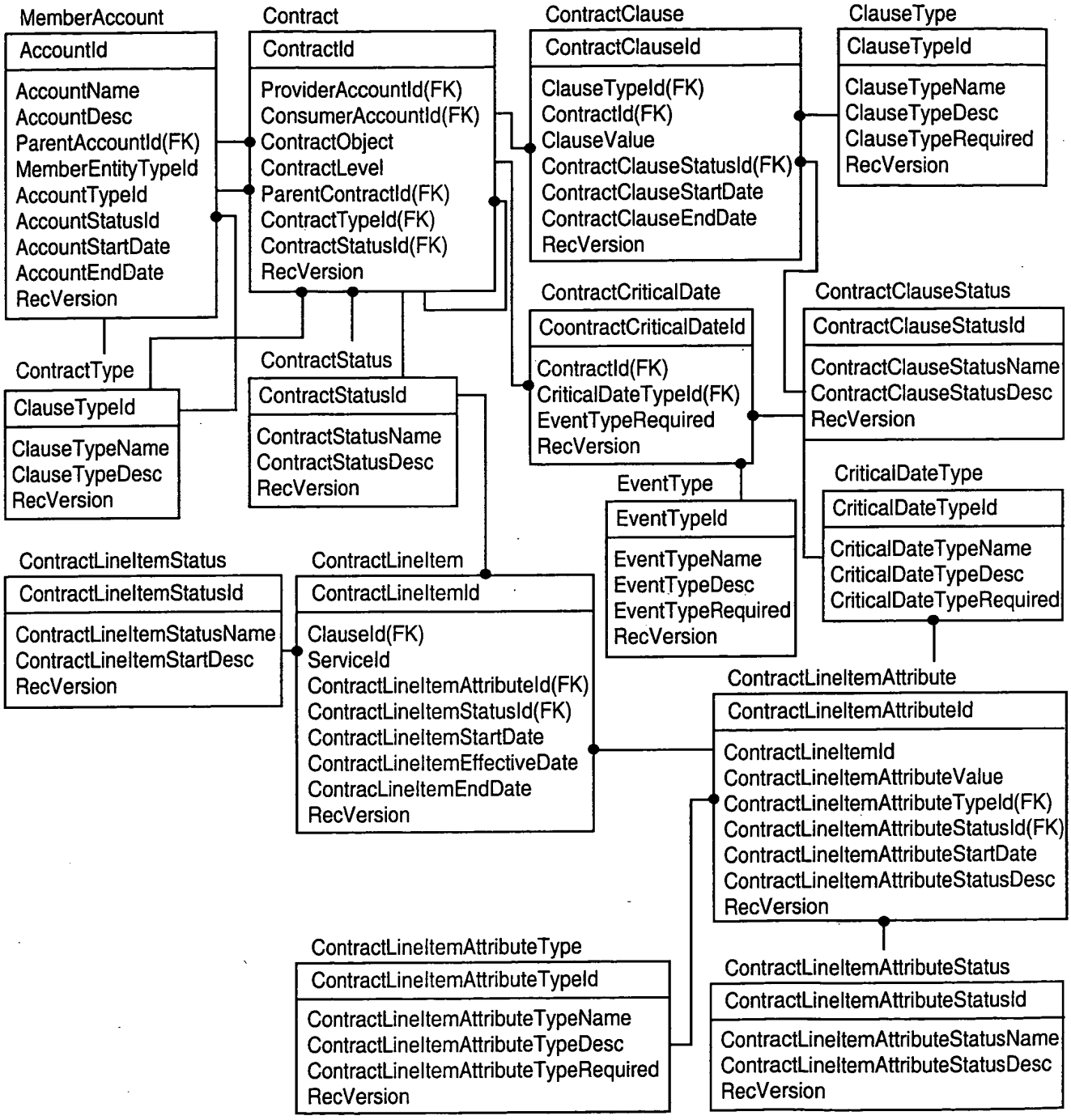
FIG. 7



800

FIG. 8

Docket No. 50277-1409


MemberAccount
AccountId
AccountName
AccountDesc
ParentAccountId(FK)
MemberEntityTypeId
AccountTypeId
AccountStatusId
AccountStartDate
AccountEndDate
RecVersion
Contract
ContractId
ProviderAccountId(FK)
ConsumerAccountId(FK)
ContractObject
ContractLevel
ParentContractId(FK)
ContractTypeId(FK)
ContractStatusId(FK)
RecVersion
ContractClause
ContractClauseId
ClauseTypeId(FK)
ContractId(FK)
ClauseValue
ContractClauseStatusId(FK)
ContractClauseStartDate
ContractClauseEndDate
RecVersion
ClauseType
ClauseTypeId
ClauseTypeName
ClauseTypeDesc
ClauseTypeRequired
RecVersion
ContractCriticalDate
CoontractCriticalDateId
ContractId(FK)
CriticalDateTypeId(FK)
EventTypeRequired
RecVersion
ContractClauseStatus
ContractClauseStatusId
ContractClauseStatusName
ContractClauseStatusDesc
RecVersion
ContractType
ClauseTypeId
ClauseTypeName
ClauseTypeDesc
RecVersion
ContractStatus
ContractStatusId
ContractStatusName
ContractStatusDesc
RecVersion
EventType
EventTypeId
EventTypeName
EventTypeDesc
EventTypeRequired
RecVersion
CriticalDateType
CriticalDateTypeId
CriticalDateTypeName
CriticalDateTypeDesc
CriticalDateTypeRequired
ContractLineItemStatus
ContractLineItemStatusId
ContractLineItemStatusName
ContractLineItemStartDesc
RecVersion
ContractLineItem
ContractLineItemId
ClauseId(FK)
ServiceId
ContractLineItemAttributeId(FK)
ContractLineItemStatusId(FK)
ContractLineItemStartDate
ContractLineItemEffectiveDate
ContracLineItemEndDate
RecVersion
ContractLineItemAttribute
ContractLineItemAttributeId
ContractLineItemId
ContractLineItemAttributeValue
ContractLineItemAttributeTypeId(FK)
ContractLineItemAttributeStatusId(FK)
ContractLineItemAttributeStartDate
ContractLineItemAttributeStatusDesc
RecVersion
ContractLineItemAttributeType
ContractLineItemAttributeTypeId
ContractLineItemAttributeTypeName
ContractLineItemAttributeTypeDesc
ContractLineItemAttributeTypeRequired
RecVersion
ContractLineItemAttributeStatus
ContractLineItemAttributeStatusId
ContractLineItemAttributeStatusName
ContractLineItemAttributeStatusDesc
RecVersion

900

FIG. 9

```
<?xml version ="1.0"?>
<!DOCTYPE Contract SYSTEM "PartnerCommunityNamespace.dtd">
<Contract>
        <Status>only text</Status>
        <ContractID>only text</ContractID>
        <ParentContractID>
                <ContractID>only text</ContractID>
        </ParentContractID>
        <ChildContracts>
                <ContractID>only text</ContractID>
        <ChildContracts>
        </ParentAccount>
                <Account>
                </Account>
        </ProviderAccount>
        <ConsumerAccount>
                <Account>
                </Account>
        </ConsumerAccount>
        <ContractLineItem>
                <LineItemID>only text</LineItemID>
                <Service>
                        <ServiceID>only text</ServiceID>
                        <Account>
                        </Account>
                        <Attributes>
                                <AttributeType>only text</AttributeType>
                                <AttributeValue>only text</AttributeValue>
                                <DisplayName>only text</DisplayName>
                                <Description>only text</Description>
                                <DataType>only text</DataType>
                                <Flags>only text</Flags>
                                <Importance>only text</Importance>
                                <Status>only text</Status>
                        </Attributes>
                        <Title>only text</Title>
                </Service>
                <Attributes>
                        <AttributeType>only text</AttributeType>
                        <AttributeValue>only text</AttributeValue>
                        <DisplayName>only text</DisplayName>
                        <Description>only text</Description>
                        <DataType>only text</DataType>
                        <Flags>only text</Flags>
                        <Importance>only text</Importance>
                        <Status>only text</Status>
```

1002

1004

1000

FIG. 10A

```
                    <Flags>only text</Flags>
                    <Importance>only text</Importance>
                    <Status>only text</Status>
                </Attributes>
                <Status>only text</Status>
                <StartDate>only text</StartDate>
                <EffectiveDate>only text</EffectiveDate>
                <EndDate>only text</EndDate>
            </ContractLineItem>
            <ContractClause>
                <ClauseID>only text</ClauseID>
                <ClauseType>
                    <ClauseTypeID>only text</ClauseTypeID>
                    <Name>only text</Name>
                    <Description>only text</Description>
                </ClauseType>
                <ClauseValue>only text</ClauseValue>
            </ContractClause>
            <CriticalDates>
                <DateID>only text</DateID>
                <DateName>only text</DateName>
                <DateValue>only text</DateValue>
                <DateDescription>only text</DateDescription>
                <Flags>only text</Flags>
                <Importance>only text</Importance>
                <Status>only text</Status>
                <Event>
                    <EventType>only text</EventType>
                    <EventDescription>only text</EventDescription>
                </Event>
            </CriticalDates?
            <Level>only text</Level>
            <ContractType>
                <Type>only text</Type>
                <Name>only text</Name>
                <Description>only text</Description>
            </ContractType>
</Contract>
```

FIG. 10B

09525252 - 052402

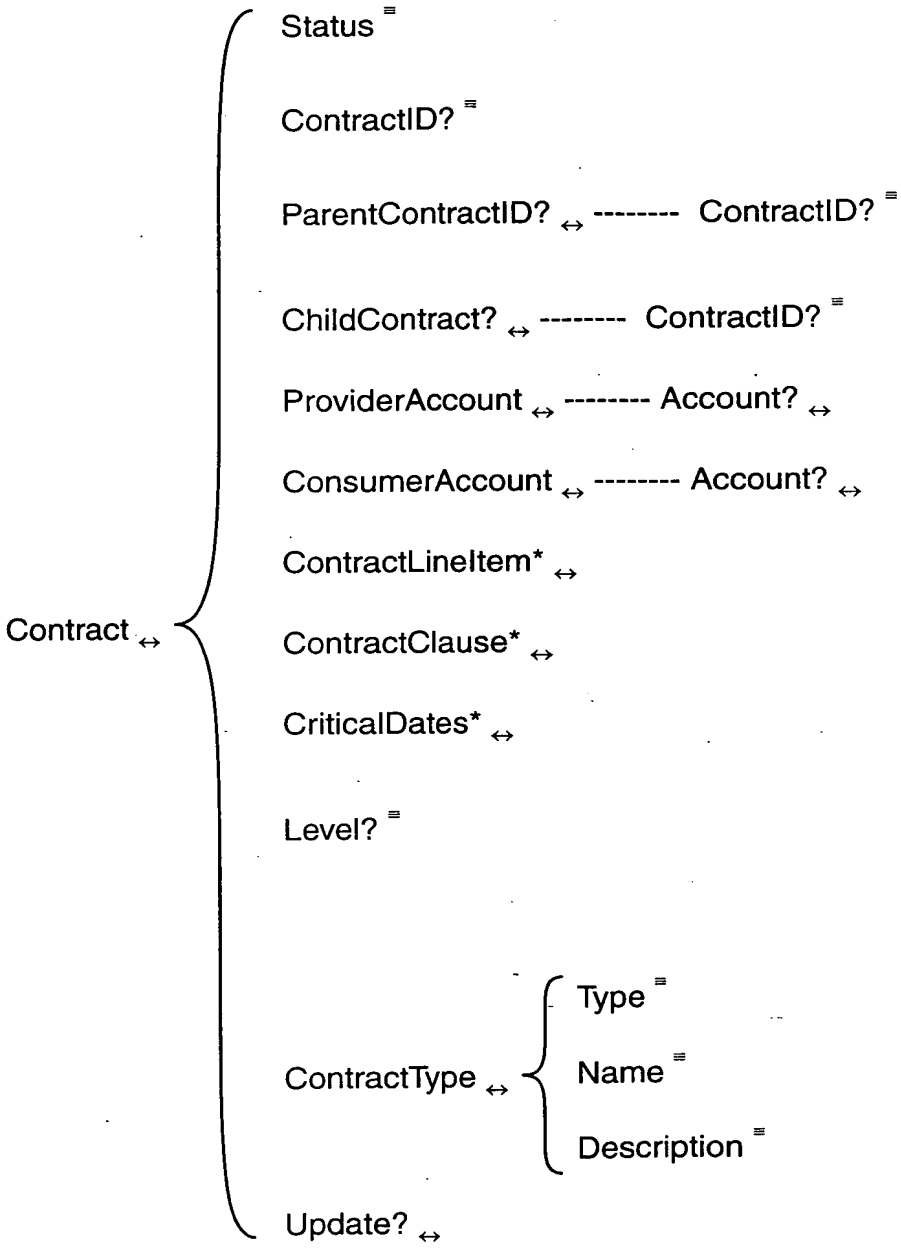

Contract ↔
Status ≡
ContractID? ≡
ParentContractID? ↔ -------- ContractID? ≡
ChildContract? ↔ -------- ContractID? ≡
ProviderAccount ↔ -------- Account? ↔
ConsumerAccount ↔ -------- Account? ↔
ContractLineItem* ↔
ContractClause* ↔
CriticalDates* ↔
Level? ≡
ContractType ↔
Type ≡
Name ≡
Description ≡
Update? ↔

FIG. 11